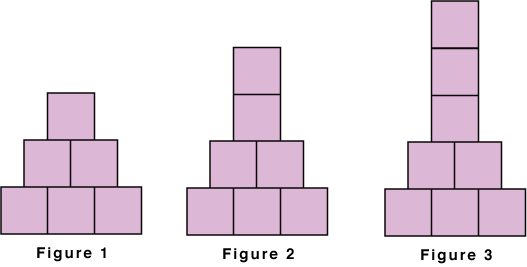
**Algebra: MA.4.A.4.1**

**1)** Jenny is building a tower using blocks. She wants to see how high she can build the tower without knocking the blocks down. If the pattern in the picture below continues, how many blocks will it take to build Figure 6?



|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **A.** | |  |  | | --- | --- | | 9 |  | |
|  | **B.** | |  |  | | --- | --- | | 10 |  | |
|  | **C.** | |  |  | | --- | --- | | 11 |  | |
|  | **D.** | |  | | --- | | 12 | |

**2)** Several patterns can be determined using the calendar shown below. Which of the following is NOT true?



|  |  |  |
| --- | --- | --- |
|  | **A.** | The dates for Mondays alternate between even and odd numbers. |
|  | **B.** | Each date is one more than the previous date. |
|  | **C.** | The dates for Thursdays are multiples of 7. |
|  | **D.** | Each date for Tuesday is 7 more than the previous one. |

**Algebra: MA.4.A.4.2**

**1)** If a secret number is represented by the letter *s*, which answer choice could describe *s* + 3 ?

|  |  |  |
| --- | --- | --- |
|  | **A.** | 3 more than the secret number |
|  | **B.** | 3 times the secret number |
|  | **C.** | 3 less than the secret number |
|  | **D.** | 3 divided by the secret number |

**2)** Ms. Tandy has 30 students in her class. If *n* represents the number of students who have already returned their field trip permission slips, which expression represents the number of students who still need to return their permission slips?

|  |  |  |
| --- | --- | --- |
|  | **A.** | 30 − *n* |
|  | **B.** | 30 + *n* |
|  | **C.** | 30 × *n* |
|  | **D.** | 30 ÷ *n* |

**Algebra: MA.4.A.4.3**

**1)** Erik has 3 more brothers than twice the number of his sisters. Using *s* for the number of Erik's sisters, which expression gives the number of Erik's brothers?

|  |  |  |
| --- | --- | --- |
|  | **A.** | 2*s* + 3 |
|  | **B.** | 3*s* + 2 |
|  | **C.** | (3 + 2) × *s* |
|  | **D.** | (*s* + 3) × 2 |

**2)** Tyrone and Virginia are at the county fair. They each purchased a book of tickets and then they both went on the Superloop, which cost them each 4 tickets. Using *t* for the number of tickets in a book, which expression gives the total number of tickets they have remaining?

|  |  |  |
| --- | --- | --- |
|  | **A.** | 2*t* − 4 |
|  | **B.** | 4 − 2*t* |
|  | **C.** | (4 − 2) × *t* |
|  | **D.** | (*t* − 4) × 2 |

**MA.4.A.1.2**

1) The **zero property of multiplication** tells us that the product of any number and zero is zero. Which of the following problems would have a product of zero?

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **A.** | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | (130 x 2) x 0 |  | = |  | ? |  | |
|  | **B.** | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 100 x 5 |  | = |  | ? |  | |
|  | **C.** | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | (40 - 30) x 1 |  | = |  | ? |  | |
|  | **D.** | |  |  |  |  |  | | --- | --- | --- | --- | --- | | (0 + 100) x 2 |  | = |  | ? | |

**2)** How many pencils will you have if you purchase 8 packages of pencils, each containing 12 pencils?

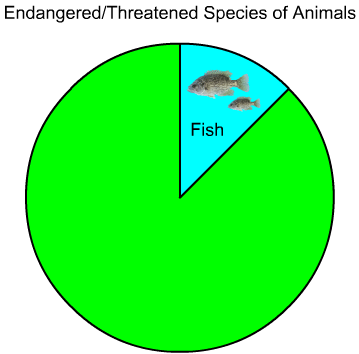
|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **A.** | |  |  | | --- | --- | | 48 |  | |
|  | **B.** | |  |  | | --- | --- | | 96 |  | |
|  | **C.** | |  |  | | --- | --- | | 112 |  | |
|  | **D.** | |  | | --- | | 88 | |

**MA.4.A.2.3**

**1)** The average life span of a dog is 12 years. The average life span of a guinea pig is 5 years. This means that a dog lives as long as a dog. Which decimal is equivalent to ?

|  |  |  |
| --- | --- | --- |
|  | **A.** | 12.5 |
|  | **B.** | 1.25 |
|  | **C.** | 12.4 |
|  | **D.** | 2.4 |

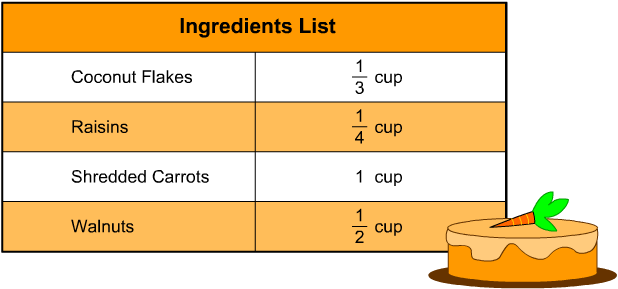
**2)** There are about 1,000 species of animals on the endangered and threatened list. That list includes 125 species of fish. This means that of the species on the list are fish. Which number is equivalent to ?



|  |  |  |
| --- | --- | --- |
|  | **A.** | .0125 |
|  | **B.** | 0.125 |
|  | **C.** | 1.250 |
|  | **D.** | 12.50 |

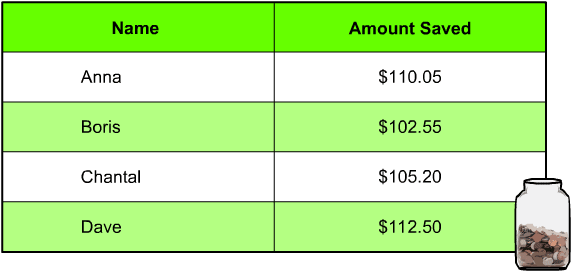
**MA.4.A.2.4**

**1)** Some of the ingredients Martine's mother mixes into her carrot cake recipe are cup of coconut flakes, cup of raisins, 1 cup of shredded carrots, and cup of walnuts, as shown in the list below.  
  
Which list places these ingredients in order by their measures from **greatest to least**?



|  |  |  |
| --- | --- | --- |
|  | **A.** | raisins, coconut flakes, walnuts, shredded carrots |
|  | **B.** | walnuts, coconut flakes, raisins, shredded carrots |
|  | **C.** | shredded carrots, walnuts, coconut flakes, raisins |
|  | **D.** | shredded carrots, raisins, coconut flakes, walnuts |

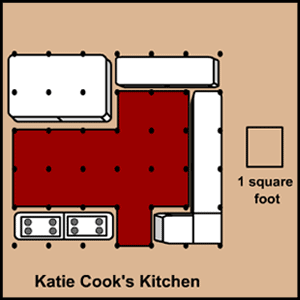
**2)** Anna, Boris, Chantal, and Dave all saved their allowance for several months in order to have enough money for a school trip. The amount they have each saved so far is shown in the table below.  
  
If each student needs to save a total of $200 for the school trip, who has the **least** amount left to save?



|  |  |  |
| --- | --- | --- |
|  | **A.** | Anna |
|  | **B.** | Boris |
|  | **C.** | Chantal |
|  | **D.** | Dave |

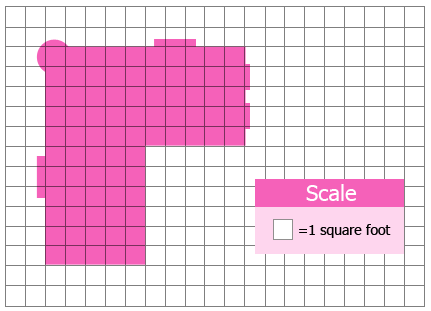
MA.4.G.3.1: First Assessment **1)**

Katie Cook is getting new tile put in her kitchen. She wants to figure out how many square feet of tile she will need. The diagram below shows Katie's kitchen with the area for the new tile shown in red. How many square feet of tile will Katie need to cover her kitchen floor?



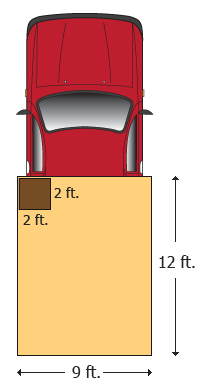
|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **A.** | |  |  | | --- | --- | | 10 square feet |  | |
|  | **B.** | |  |  | | --- | --- | | 13 square feet |  | |
|  | **C.** | |  |  | | --- | --- | | 17 square feet |  | |
|  | **D.** | |  | | --- | | 30 square feet | |

**2)** Rachael drew a picture of the shape of her room on a piece of graph paper. Which of the following answer choices is closest to the area of Rachael's room, in square feet?



|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **A.** | |  |  | | --- | --- | | 70 square feet |  | |
|  | **B.** | |  |  | | --- | --- | | 80 square feet |  | |
|  | **C.** | |  |  | | --- | --- | | 90 square feet |  | |
|  | **D.** | |  | | --- | | 100 square feet | |

**MA.4.G.3.2 1)** Carmen is moving across town and needs to pack the bed of her truck with boxes. Each box is 2 feet wide by 2 feet long. Carmen's truck is shown below. She has approximately 32 boxes to move. Using the area formula for a rectangle would help Carmen to solve which of the following problems?



|  |  |  |
| --- | --- | --- |
|  | **A.** | figuring out how high she can safely stack boxes in the bed |
|  | **B.** | figuring out how many people she will need to move boxes |
|  | **C.** | figuring out how many trips it will take to move all the boxes |
|  | **D.** | figuring out how much stuff each box will safely hold |

**2)** Mrs. Scarlet has started decorating a back-to-school welcome board for her students. For which of the following situations would she use the area formula for a rectangle?



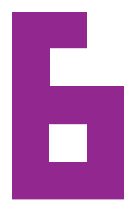
|  |  |  |
| --- | --- | --- |
|  | **A.** | determining the amount of border to use around the board |
|  | **B.** | determining the amount of paper needed to cover the board |
|  | **C.** | determining the width of the lettering needed for the board |
|  | **D.** | determining the number of words to include on the board |

**MA.4.G.3.3**

**1)** Mr. Philips needs to install new carpet in a living room. Which is the best estimate of the total amount of carpet needed to cover the entire floor of a living room?

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **A.** | |  |  |  |  | | --- | --- | --- | --- | | 20 |  | square feet |  | |
|  | **B.** | |  |  |  |  | | --- | --- | --- | --- | | 20 |  | square inches |  | |
|  | **C.** | |  |  |  |  | | --- | --- | --- | --- | | 110 |  | square feet |  | |
|  | **D.** | |  |  |  | | --- | --- | --- | | 110 |  | square inches | |

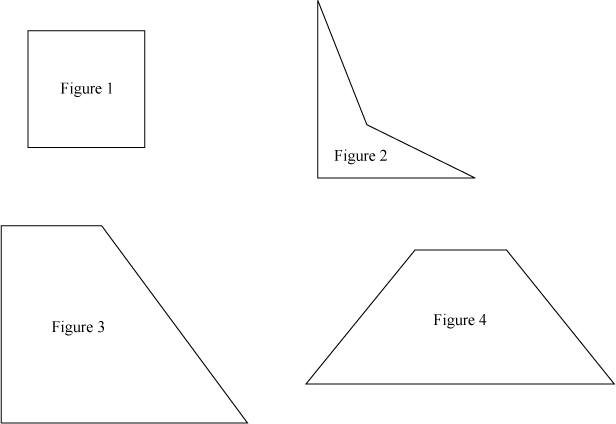
**2)** Michael wants to find the area of the shape below by adding together the areas of rectangles. What is the fewest number of times he will need to use the area formula for a rectangle to determine the shape's area?



|  |  |  |
| --- | --- | --- |
|  | **A.** | 4 |
|  | **B.** | 5 |
|  | **C.** | 6 |
|  | **D.** | 7 |

**MA.4.G.5.1**

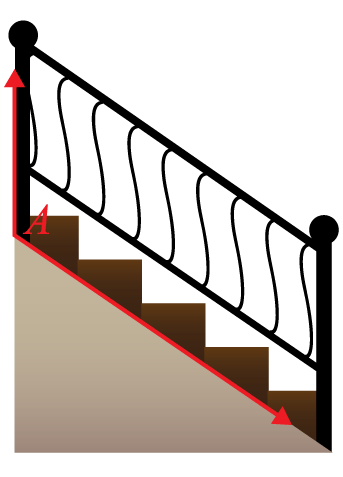
**1)** Which quadrilateral has four right angles?



|  |  |  |
| --- | --- | --- |
|  | **A.** | Figure 1 |
|  | **B.** | Figure 2 |
|  | **C.** | Figure 3 |
|  | **D.** | Figure 4 |

**2)**

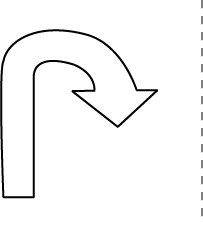
In the figure below, which is the closest to the measure of ∠A?



|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **A.** | |  |  | | --- | --- | | 45° |  | |
|  | **B.** | |  |  | | --- | --- | | 90° |  | |
|  | **C.** | |  |  | | --- | --- | | 180° |  | |
|  | **D.** | |  | | --- | | 360° | |

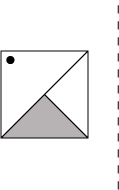
**MA.4.G.5.2**

**1)** Jamal drew the arrow shown below on a piece of paper. Which answer choice shows the reflection of this arrow?



|  |  |  |
| --- | --- | --- |
|  | **A.** |  |
|  | **B.** |  |
|  | **C.** |  |
|  | **D.** |  |

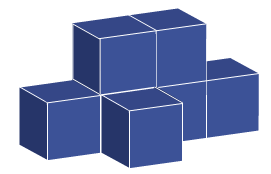
**2)** Cecelia reflected the figure below over the dashed line.  
  
Which of the following shows the figure after the reflection?



|  |  |  |
| --- | --- | --- |
|  | **A.** |  |
|  | **B.** |  |
|  | **C.** |  |
|  | **D.** |  |

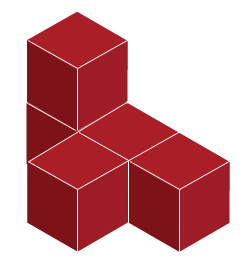
**MA.4.G.5.3**

**1)** Luisa is playing with her baby sister. She stacks some of her sister's wooden blocks, as shown in the figure below. Which of the following shows how the blocks would look when viewed from the front?



|  |  |  |
| --- | --- | --- |
|  | **A.** | http://focus.florida-achieves.com/student/images/math/4/4G53MC1_a.gif |
|  | **B.** | http://focus.florida-achieves.com/student/images/math/4/4G53MC1_b.gif |
|  | **C.** | http://focus.florida-achieves.com/student/images/math/4/4G53MC1_c.gif |
|  | **D.** | http://focus.florida-achieves.com/student/images/math/4/4G53MC1_d.gif |

**2)** Gene and his brother are playing a game that involves rolling dice. After his turn, Gene stacks the dice in a pile, as shown in the figure below. Which of the following shows how the dice would look when viewed from the top?



|  |  |  |
| --- | --- | --- |
|  | **A.** | http://focus.florida-achieves.com/student/images/math/4/4G53MC2_a.gif |
|  | **B.** | http://focus.florida-achieves.com/student/images/math/4/4G53MC2_b.gif |
|  | **C.** | http://focus.florida-achieves.com/student/images/math/4/4G53MC2_c.gif |
|  | **D.** | http://focus.florida-achieves.com/student/images/math/4/4G53MC2_d.gif |

**MA.4.A.6.1 1)** Mrs. Hall is reviewing bank statements for her business's bank account. At the beginning of the year, the account had a balance of $497,350. At the end of the year, the account balance was $688,732. How much money did her business make this year?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **A.** | |  |  | | --- | --- | | $191,382 |  | |
|  | **B.** | |  |  | | --- | --- | | $291,482 |  | |
|  | **C.** | |  |  | | --- | --- | | $1,075,082 |  | |
|  | **D.** | |  | | --- | | $1,186,082 | |

**2)** One year, the U.S. Department of Education determined that there were 3,577,514 students in 4th grade attending U.S. public schools. That same year, there were 391,534 students in 4th grade that went to private schools. Which of the following is the best estimate of the total number of 4th graders in the U.S. that year?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **A.** | |  |  | | --- | --- | | 3,186,000 |  | |
|  | **B.** | |  |  | | --- | --- | | 3,868,000 |  | |
|  | **C.** | |  |  | | --- | --- | | 3,969,000 |  | |
|  | **D.** | |  | | --- | | 4,000,000 | |

**MA.4.A.6.2**

**1)** Jameika is having a birthday party at the skating rink. She plans to invite all of the 4th grade students at her school, which is a total of 72 kids. The invitations she buys come 12 in each pack. Which of the following equations can Jameika use to find *p*, the number of packs of invitations she will need to buy?

|  |  |  |
| --- | --- | --- |
|  | **A.** | *p* × 12 = 72 |
|  | **B.** | *p* ÷ 72 = 12 |
|  | **C.** | 72 × *p* = 12 |
|  | **D.** | 12 ÷ 72 = *p* |

**2)** Casey has a bag of candy that he wants to share with the players on his baseball team after practice. The bag contains 60 pieces of candy. Casey takes out 12 pieces and passes one out to each player. If he continues to do this until the bag is empty, how many pieces of candy will each baseball player get?

|  |  |  |
| --- | --- | --- |
|  | **A.** | 4 |
|  | **B.** | 5 |
|  | **C.** | 6 |
|  | **D.** | 8 |

MA.4.A.6.3

**1)** Sharonda's mom put gas in her car. When she was done, the tank was full . Which fraction is equivalent to ?

|  |  |  |
| --- | --- | --- |
|  | **A.** |  |
|  | **B.** |  |
|  | **C.** |  |
|  | **D.** |  |

**2)** Joseph read 15 of the 40 books on his bookshelf. Which fraction is equivalent to http://focus.florida-achieves.com/student/images/math/15_40.gif?

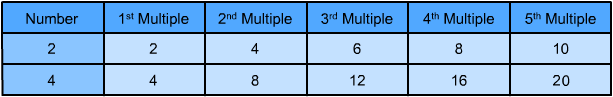
|  |  |  |
| --- | --- | --- |
|  | **A.** | http://focus.florida-achieves.com/student/images/math/1_2.gif |
|  | **B.** | http://focus.florida-achieves.com/student/images/math/2_3.gif |
|  | **C.** | http://focus.florida-achieves.com/student/images/math/3_4.gif |
|  | **D.** | http://focus.florida-achieves.com/student/images/math/3_8.gif |

**MA.4.A.6.4**

**1)** Mrs. Larson organized the 45 students in her physical education class into teams. Each team has the same number of students. Which of the following is the **smallest** number of students on a team with no students left over?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **A.** | |  |  | | --- | --- | | 2 |  | |
|  | **B.** | |  |  | | --- | --- | | 3 |  | |
|  | **C.** | |  |  | | --- | --- | | 9 |  | |
|  | **D.** | |  | | --- | | 15 | |

**2)** Mariah is making a table to show the smallest five multiples of even numbers up to 20. The beginning of her table is shown below. Which number would appear in the list of multiples for BOTH 12 and 18?



|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **A.** | |  |  | | --- | --- | | 6 |  | |
|  | **B.** | |  |  | | --- | --- | | 12 |  | |
|  | **C.** | |  |  | | --- | --- | | 18 |  | |
|  | **D.** | |  | | --- | | 36 | |

**MA.4.A.6.5**

**1)** Diego is helping his father clean the attic. At the end of the first day, they estimate that they are 60% done with their work. Which of the following is equal to 60%?

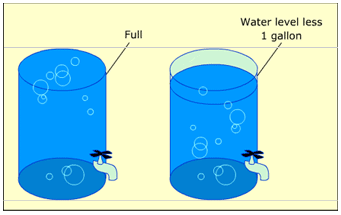
|  |  |  |
| --- | --- | --- |
|  | **A.** |  |
|  | **B.** |  |
|  | **C.** | 6.0 |
|  | **D.** | 0.6 |

**2)** Samuel knows that four laps around his school's track equals one mile. One lap, then, is equal to of a mile. One lap equals what percent of a mile on this track?

|  |  |  |
| --- | --- | --- |
|  | **A.** | 20% |
|  | **B.** | 25% |
|  | **C.** | 40% |
|  | **D.** | 50% |

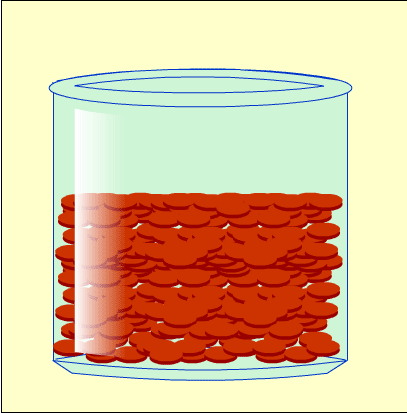
MA.4.A.6.6

1**)** When one gallon of water is drained from the full water storage tank, the water level drops to the level shown below. About how many gallons of water are in the full storage tank?



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **A.** | |  |  |  |  | | --- | --- | --- | --- | | 1 |  | gallons |  | |
|  | **B.** | |  |  |  |  | | --- | --- | --- | --- | | 3 |  | gallons |  | |
|  | **C.** | |  |  |  |  | | --- | --- | --- | --- | | 8 |  | gallons |  | |
|  | **D.** | |  |  |  | | --- | --- | --- | | 22 |  | gallons | |

**2)** Kris is saving pennies in a jar. His jar can hold up to 1,000 pennies. Which is the best estimate for the number of pennies in Kris' jar shown below?



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **A.** | |  |  |  |  | | --- | --- | --- | --- | | 400 |  | pennies |  | |
|  | **B.** | |  |  |  |  | | --- | --- | --- | --- | | 600 |  | pennies |  | |
|  | **C.** | |  |  |  |  | | --- | --- | --- | --- | | 800 |  | pennies |  | |
|  | **D.** | |  |  |  | | --- | --- | --- | | 900 |  | pennies | |